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model : QVI-LVTX-1CH-V7 / product code : LVTX-1CH-1201-005

Car Video Interface for Dodge/Chrysler User Manual

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1.1 Main specification

1. Input Spec. (MULTI VIDEO INTERFACE)

- 1 x Analog R, G, B, C sync
- 1 x CVBS(REAR CAMERA) Input. (Rear camera source)
- 3 x A/V (NTST & PAL) Input.
- 1 x LCD Input (Car system Input)

2. Output Spec.

- 2 X CVBS OUTPUT (Video Out for installing Headrest monitor)
- 1 x Audio OUTPUT
- 1 X LCD OUTPUT(LCD Operation)

3. Power Spec.

- Input Power : 8VDC ~ 18VDC
- Consumption Power : 3WATT (in maximum level)

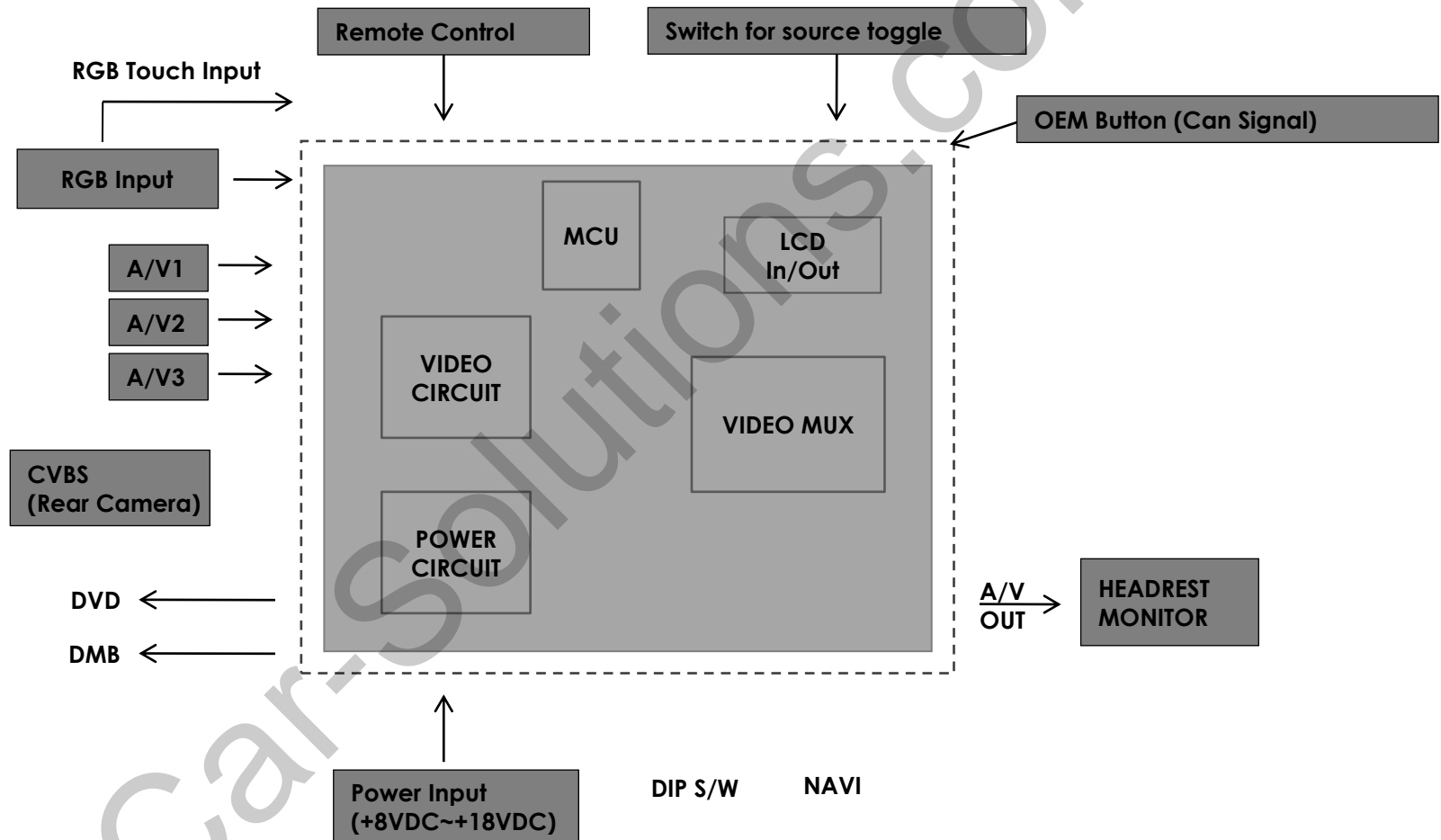
4. Mode change

- Input Video skip : able to skip each input source via adjusting DIP switch
- Control by using the remote controller
- Able to switch modes via using the original buttons(navigation)

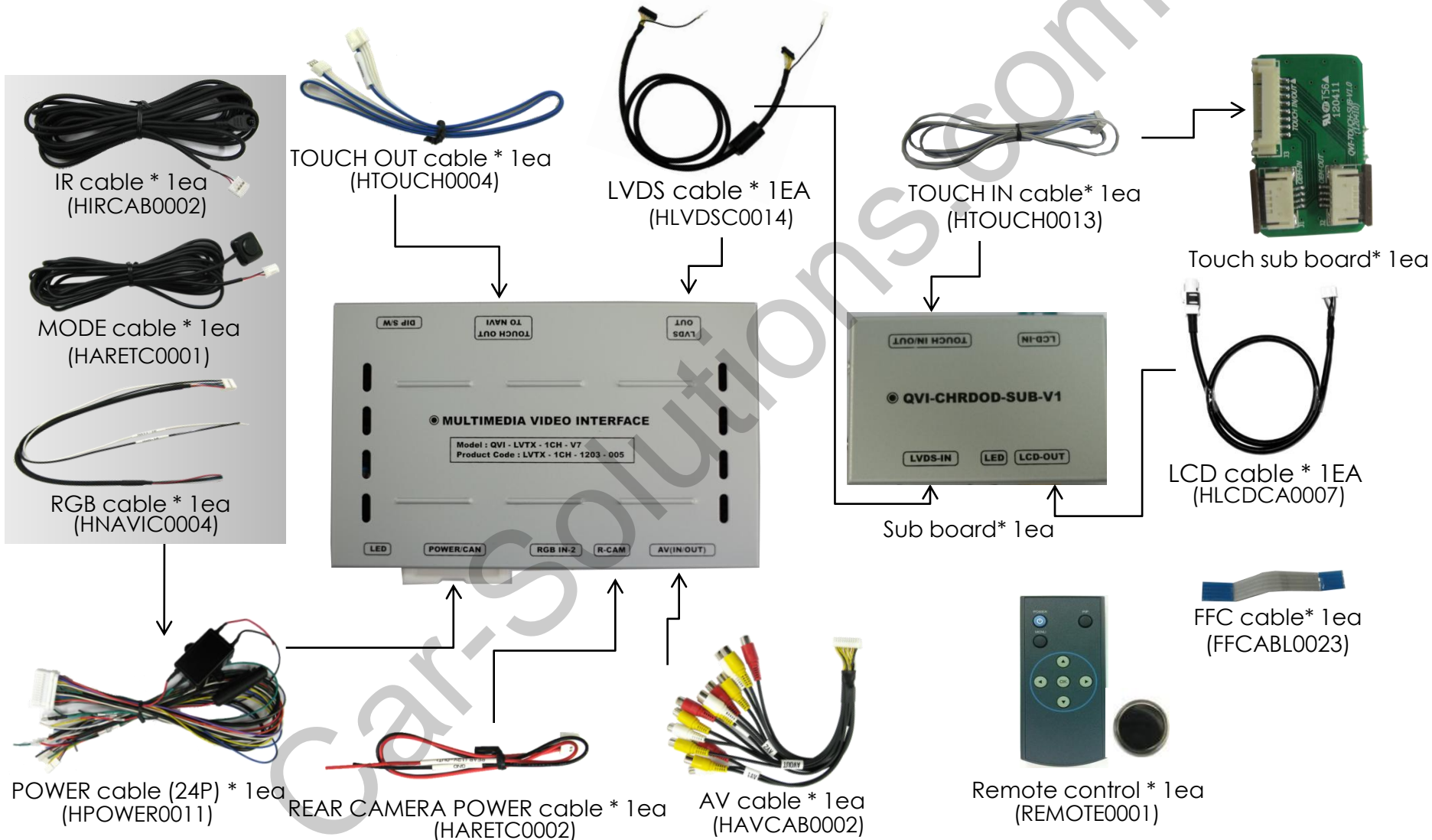
1.2 Features

- DVD, DTV control via registering values of the buttons on the remote controller (only for models including remote controller)
- Plug & Play (the LVDS cable offered)
- Control of position of the DVD, navigation image
- Mode switch via original button
- **Compatible Cars**
 - Dodge Charger 2011~
 - Fiat Freemont
 - Dodge Journey
 - Chrysler 300C

1.3 System diagram



1.4 Components



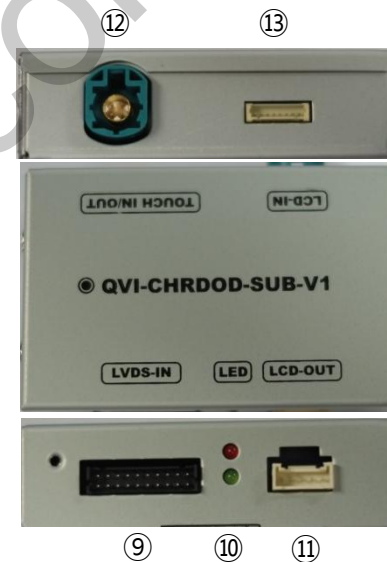
1.5 Exterior



Dimension

Horizontal length 147mm
Vertical length 91mm
Height 27mm

- ① LED
- ② POWER/CAN/RGB
- ③ RGB IN-2
- ④ REAR CAMERA
- ⑤ AV(IN/OUT)
- ⑥ DIP SWITCH
- ⑦ TOUCH OUT TO NAVI
- ⑧ LVDS OUT



- ⑨ LVDS-IN
- ⑩ LED
- ⑪ LCD-OUT
- ⑫ TOUCH IN/OUT
- ⑬ LCD-IN

2.1 DIP switch

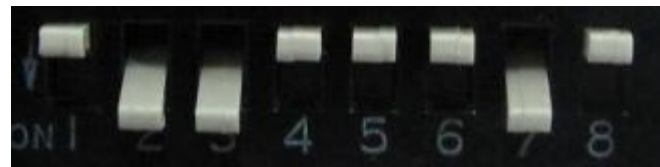
#PIN	function	DIP S/W selection
1	RGB INPUT skip	ON : Skipping RGB Mode OFF : RGB Display
2	A/V 1 skip	ON : Skipping A/V 1 OFF : A/V1 Display
3	A/V 2 skip	ON : Skipping A/V 2 OFF : A/V2 Display
4	A/V 3 skip	ON : Skipping A/V 3 OFF : A/V3 Display
5		N.C
6		N.C
7	Rear Mode	ON : External Rear Camera OFF : OEM Rear Camera
8		N.C

※ ON : DOWN, OFF : UP

※ DIP S/W usage

- Input mode to intend to use : A/V3(DVD)
- Rear view camera : installation on CVBS4
- When the original navigation is NOT installed

- ▷ DIP S/W : 1 → OFF
- ▷ DIP S/W : 2,3 → ON (input mode skip)
- ▷ DIP S/W : 4 → OFF (A/V3 available)
- ▷ DIP S/W : 7 → ON (External Real Camera available)



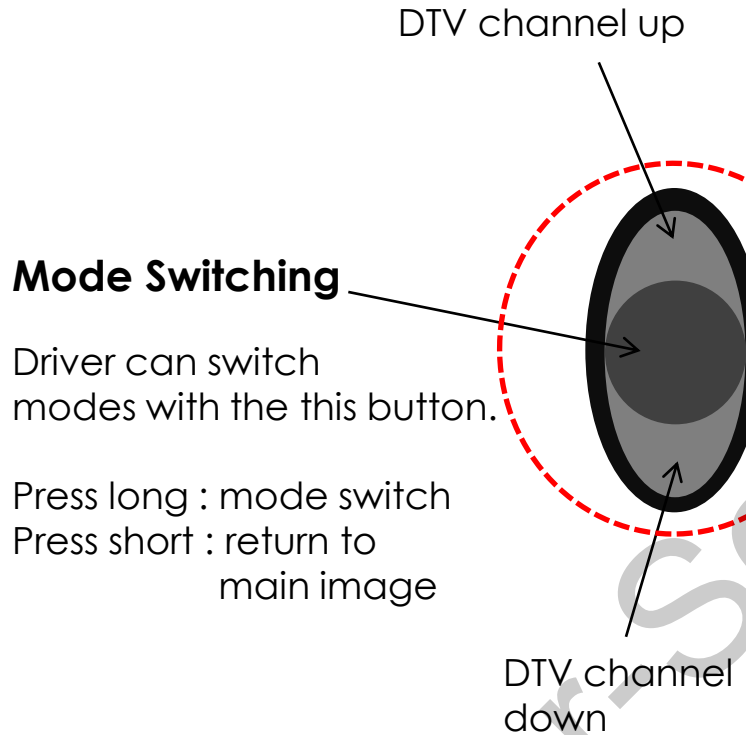
2.2 Remote controller

Key	Function
POWER & PIP	Not for use
MENU	OSD implementation
OK	Making a selection
▲	Move upward
▼	Move downward
◀	Move leftward, press 2 seconds long-Factory mode implementation
▶	Move rightward, press 2 seconds long-Factory Mode implementation-Factory mode Reset



2.3 Original buttons in car

※ User can find this button from back of the steering wheel(Chrysler has buttons as same place)



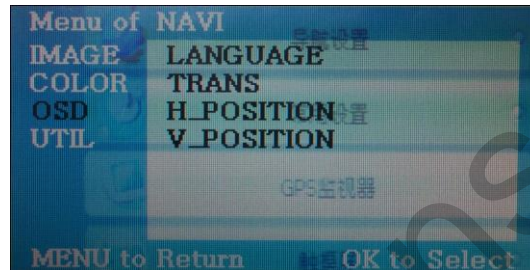
2.4 OSD (on screen display)

OSD menu: Press "MENU" button on the remote controller.

Analog RGB



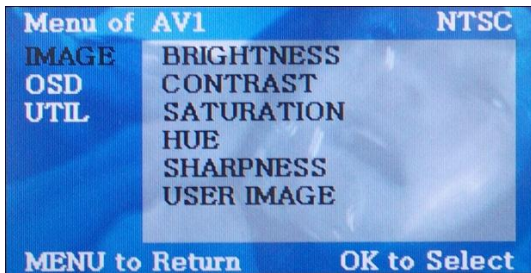
Analog RGB



Analog RGB



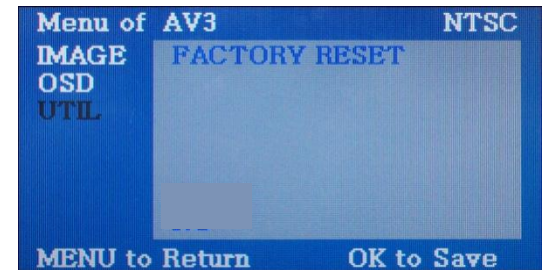
Video



Video



Video



IMAGE

- BRIGHTNESS
- CONTRAST
- SATURATION
- HUE
- SHARPNESS
- USER IMAGE : To choose a option among 4 prepared color shade.

OSD

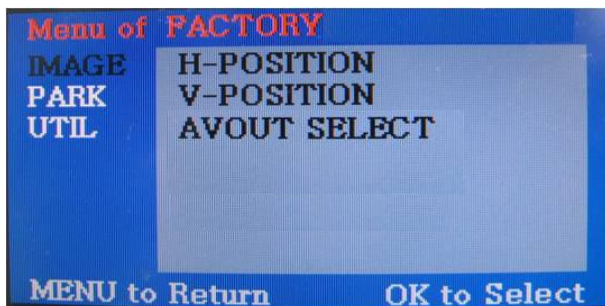
- LANGUAGE : To change the language displaying on navigation, DVD, CMMB OSD menu (select 1 among English or Chinese)
- TRANS : Transparency control of the OSD background
- H_POSITION : Horizontal movement of the OSD window
- V_POSITION : Vertical movement of the OSD window

UTIL

- FACTORY RESET : To reset all the values about navigation, DVD screen to factory default. (NOT available for reset of the position value of images, only for functions inside OSD menu)

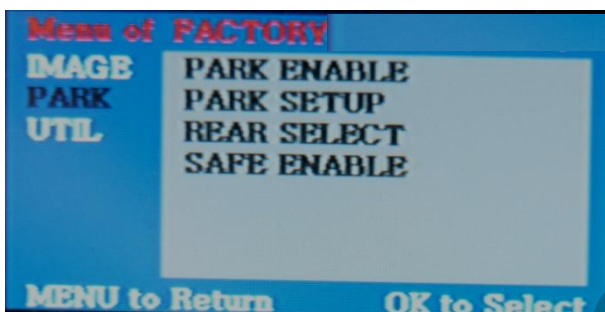
2.5 Factory mode

Factory mode: press ◀ button 2 seconds long.



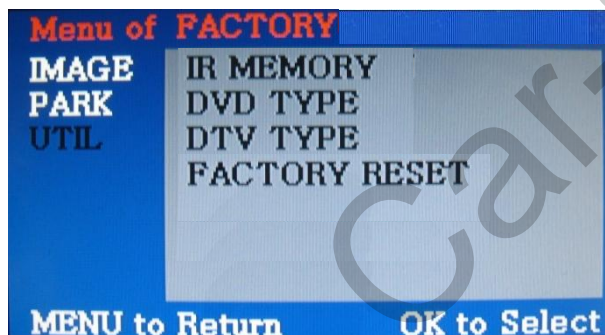
IMAGE

- H-POSITION : Control over horizontal movement of screen
- V-POSITION : Control over vertical movement of the screen
- AVOUT SELECT : DEFAULT, AV1, AV2, AV3



PARK

- PARK ENABLE : Setup of rear view parking guide line
- PARK SETUP : Control over position of rear view parking guide line
(Refer to page13.)
- REAR SELECT : To select whether to use Can or Lamp
- SAFE ENABLE : To select whether to use SAFE function
(NOT to allow watch video while driving) or not

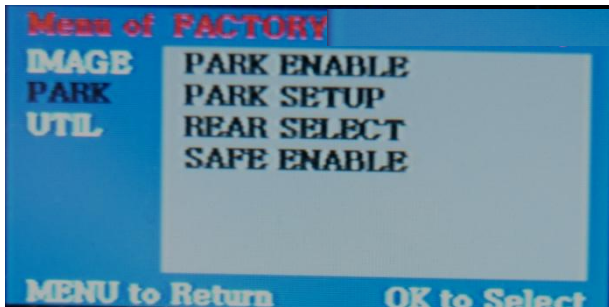


UTIL

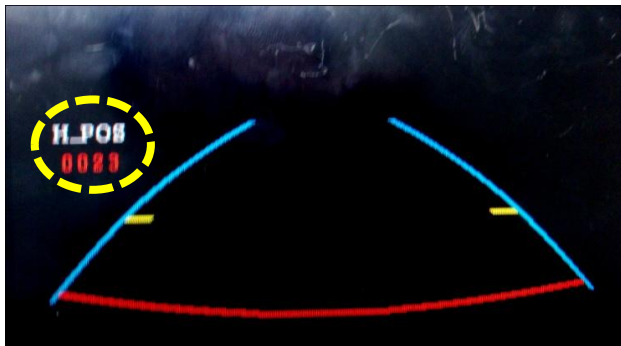
- IR MEMORY : To register value of buttons on the remote controller
(Refer to page14~15.)
- DVD TYPE : Setup for the type of DVD (Refer to page16.)
- DTV TYPE : Setup for the type of DMB (Refer to page16.)
- FACTORY RESET : To reset all the value in factory mode

2.6 Rear view parking guide line

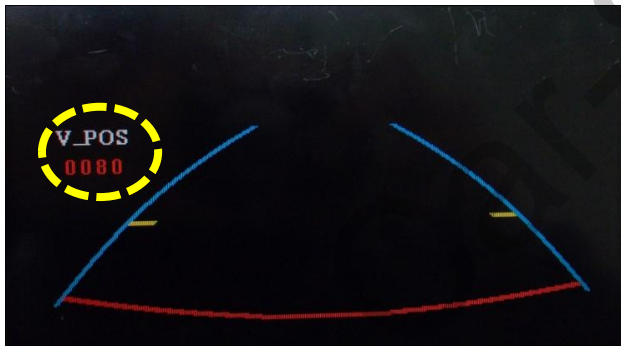
Factory mode: press ◀ button 2 seconds long.



① Register the value needed on the "PARK ENABLE" as "ON" in the PARK section as shown left. **(default – ON)**



② If you get rear gear after setup, parking guide line will appear on screen as shown left. Now that you push "OK" button, you can see "H-POS" on the left of screen. Then adjust horizontal position of the guide line.

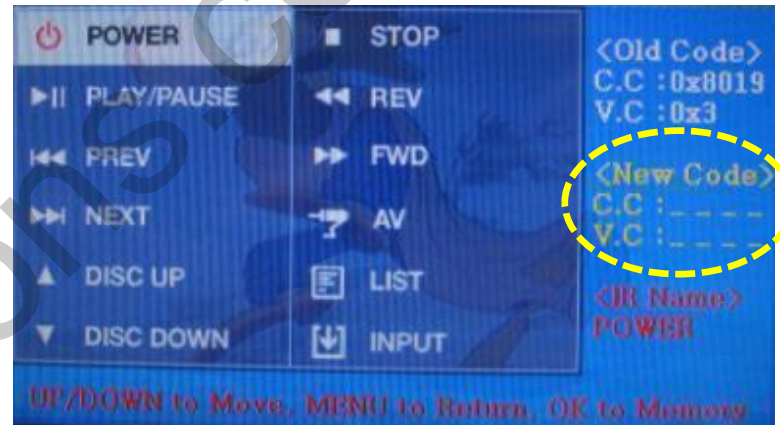
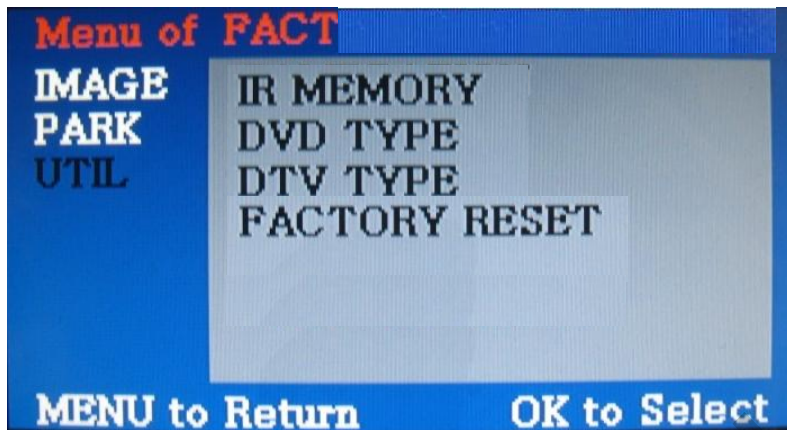


③ After adjusting horizontal position, press "OK" on the remote controller. Then you can see "V-POS" on the left of screen. At that time you can adjust vertical position of the guide line.

2.7.1 Remote controller button

Registering value of remote controller buttons?

When you want to control DVD and DTV via touch screen (using OSD menu) with other models besides already registered option-SANYO and NECVOX, you can register value of DVD and DTV' s remote controller which you have. Then you can control DVD and DMB via touch screen.



① First of all, press ◀ button on remote controller 2 seconds long. Then you can access to the FACTORY mode. And go to IR MEMORY, UTIL.

There are two options in IR MEMORY as shown above; DTV and DVD.

Then you select AV source that you want to set among them.

② This is a window for register of DVD' s remote controller button value. At the moment just select a menu that you want to save.

(Select "DTV in options of IR MEMORY" if you want to save values of DTV' s remote controller. And follow the instruction below.)

Instruction>

a. Select "POWER" in OSD menu, then press "OK" on remote controller. (as shown above)

b. If the marked area flickers as shown above, press "POWER" button on the remote controller of DVD that you want to use. (continued in the next page)

2.7.2 Remote controller button



Instruction> continued...

c. The values that you registered will appear as green text in the marked area on pressing the button. And the values will be saved automatically.

d. Register remain buttons' value in OSD menu like the above-mentioned.

③ After register, select "INPUT" in OSD menu and press "OK". Then you can see confirmation window as shown above. At the moment, if you choose "YES", all the values that you entered will be saved. If you select "NO", the values won't be saved.

(If data is saved, DVD TYPE and DMB TYPE will be changed to "USER" automatically.)

If you see "SUCCESS" on screen, the data is saved clearly and you can control DVD via touch screen. BUT, you MUST change the option in DVD(DMB)/UTIL/FACTORY to "USER". (Refer to page18.)

2.8 DVD, DTV model selection



DVD TYPE



DTV TYPE

UTIL – DVD/DTV TYPE

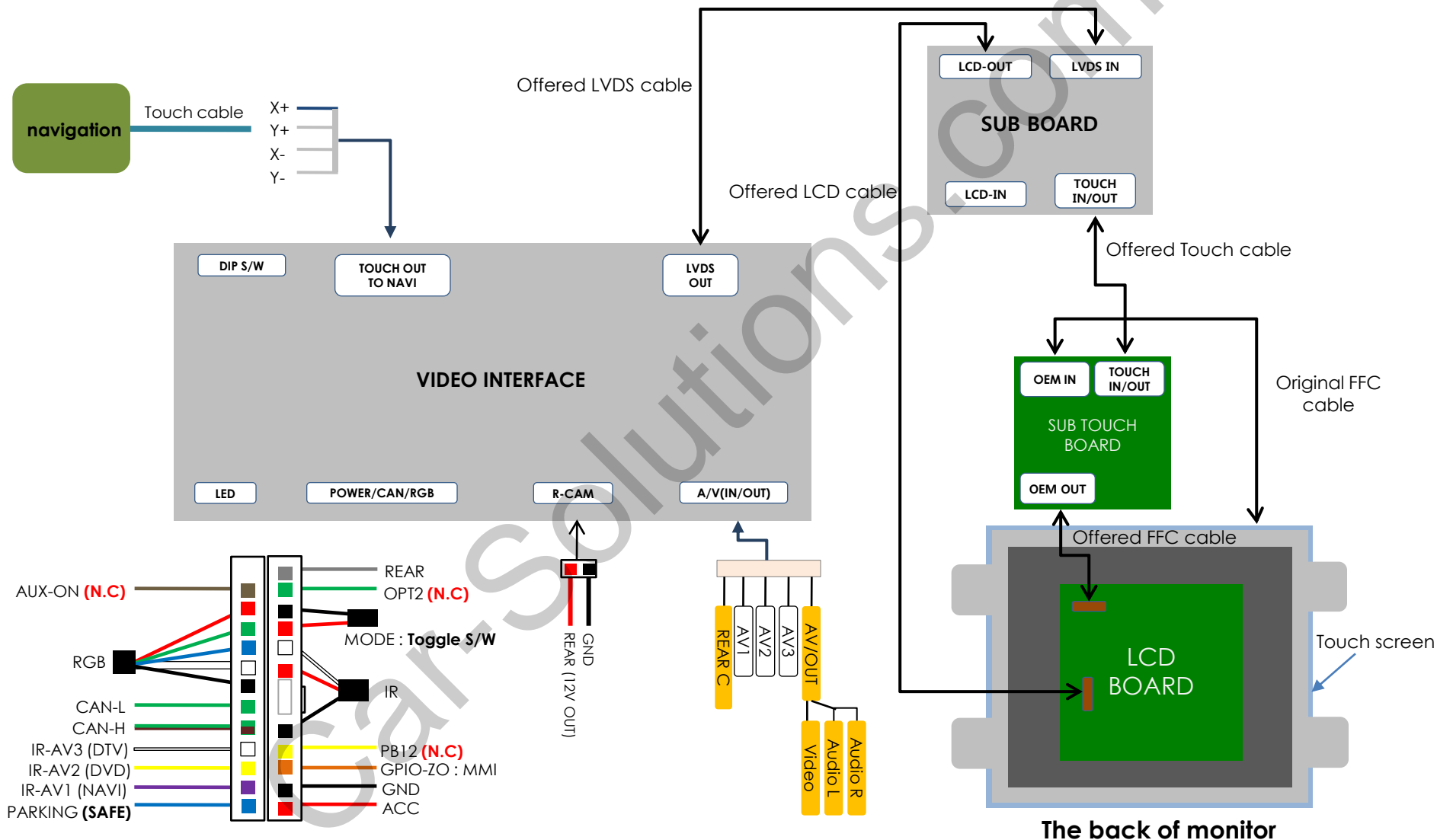
If DVD/DTV type that you want to use is not NECVOX or SANYO, you have to register values of the remote controller that you want to use in the "IR MEMORY" section and set the "DVD TYPE"/"DTV TYPE" to "USER". Unless you do this process after saving the data, you can NOT control DVD/DTV via touch screen.

DVD TYPE : NEC/SANYO, DV-108, SANYO-1, SANYO-2, USER

DTV TYPE : PIONEER/PANASONIC, USER,

※ If you enter data in "IR MEMORY" section in FACTORY mode, "DVD TYPE"/ "DMB TYPE" will **automatically** be saved to "USER".

3.1 Installation diagram

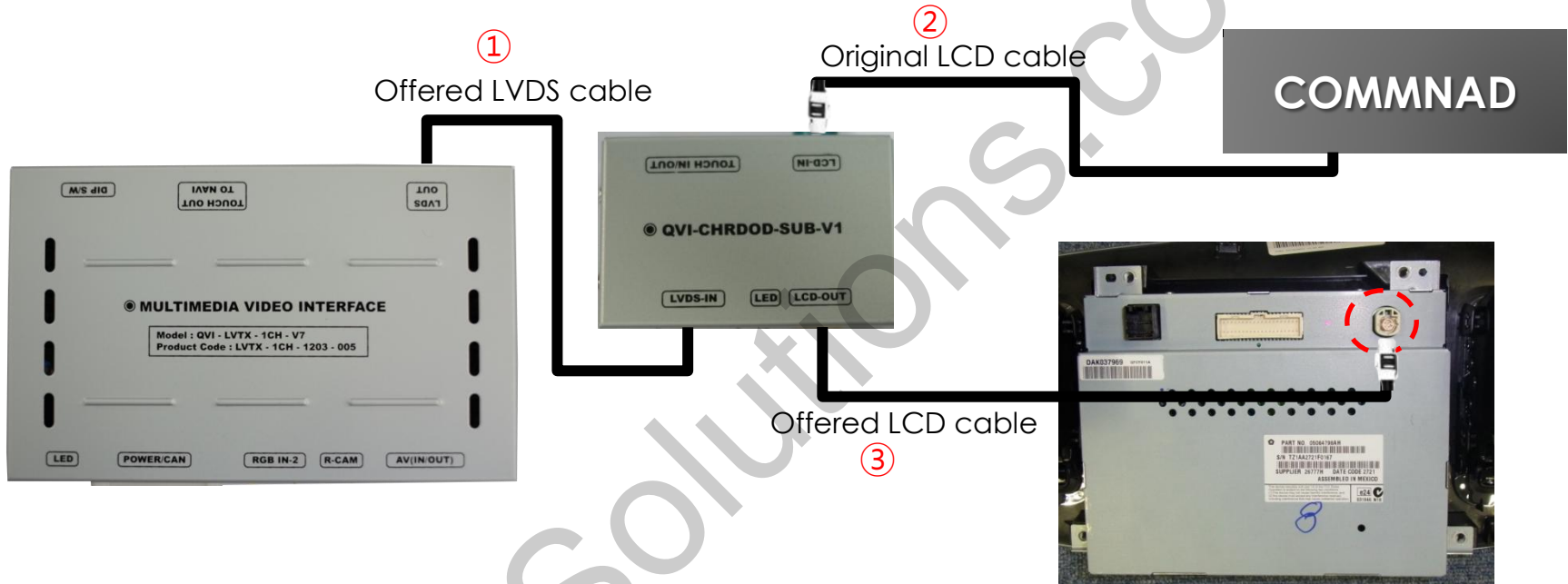


3.2 Cautions on installation

- Ignition key should be taken off before starting installation, interface power connection must be the last step in installation.
- Power cable should be separated when connecting interface.
- Should be no any electronic devices or magnetic pole around installation place.
- All steps of installation should be done by well-trained specialist.
- Dismantling without manufacturer's permission can not be guaranteed, (No permission to break attached label on the board.)
- Kindly check all parts are in the box, when receiving the product, if anything missing, inform to the supplier or manufacturer.
- According to our sales policy, any problems caused by user's mistake, careless can not be guaranteed.

3.3 Installation

1. Connect LVDS Cable



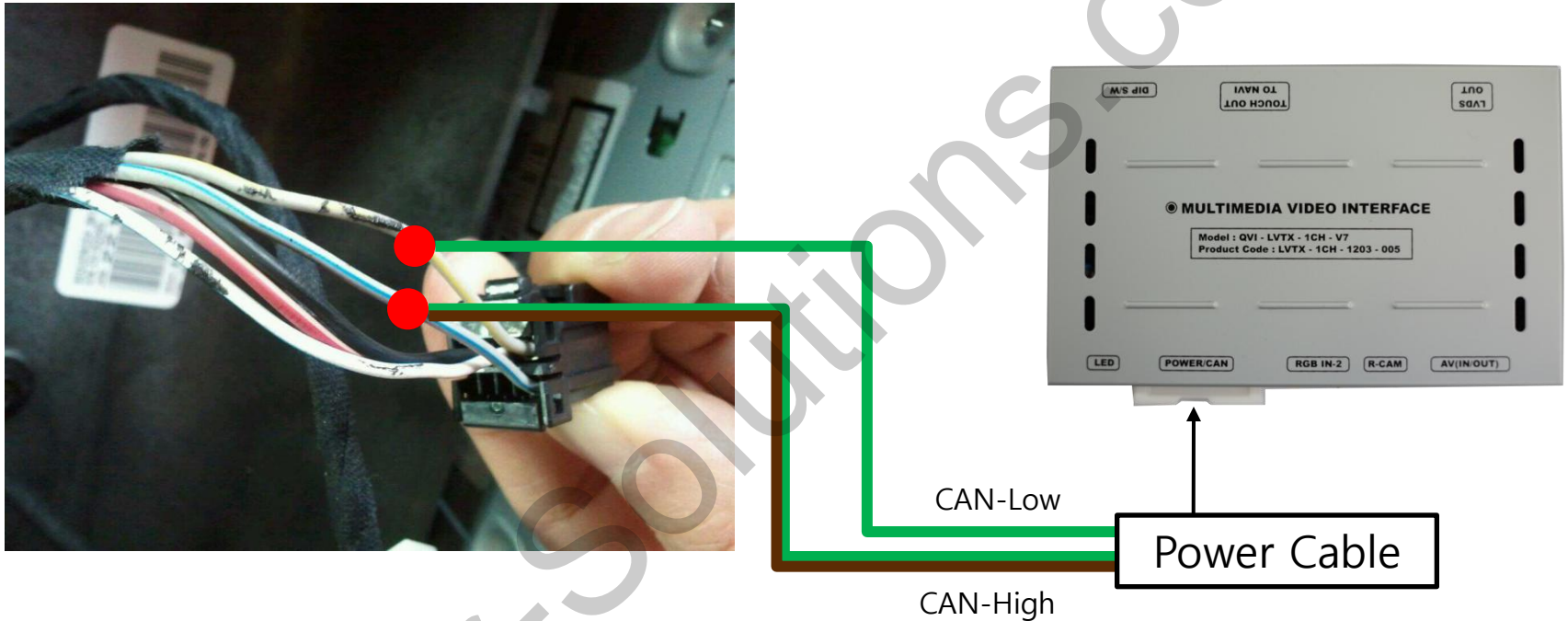
1. Offered LVDS Cable connect to LVDS-IN in Sub-board
2. After dividing original LCD cable from the back of monitor, and connect with LCD-IN in sub-board
3. Offered LCD cable connect with LCD-OUT in sub-board and the marked point from the back of monitor

※ The Power of Interface connect with accessory Power in the car

3.3 Installation

2. Connecting CAN cable respectively

The LCD cable in the back of monitor connect with offered powercable



Connect CAN-H cable (green+brown) enclosed in our package with the original CAN-H cable (White+Blue). And connect CAN-L cable (green) enclosed in our package with the original CAN-L cable (White+Yellow).

4. Troubleshooting

Q. I can not switch A/V sources.

A. Check IR or Ground cable connection. Check LED lamps in the interface, if it is not on, check power cable.

Q. All I got on the screen is black.

A. Check second LED lamp of the interface is on, if not, check A/V sources connected are working well.

(Second lamp indicates AV sources connected works well.) Check interface connection has been done well.

Q. Displayed image color is not proper. (too dim or not suitable color)

A. Try to select "INITIAL" in OSD menu, if it does not work, inform the manufacturer.)

Q. Rear camera image does NOT appear.

A. Set DIP switch #7 in "ON"

Q. Unwanted A/V mode is displayed. (A/V source switching order : OEM->RGB->AV1->AV2->AV3)

A. Check DIP Switch Setting.

Q. OEM image is not displayed.

A. Check interface's LCD In/Out cable connection. If the status keeps on, inform the manufacturer.

Q. Screen only displays white like left picture.

A. Check LCD out cable is connected well, if this status keeps, inform the manufacturer.